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File: DWPI

Jul 25, 1990

DERWENT-ACC-NO: 1990-245433

DERWENT-WEEK: 199032

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TITLE: Skew compensation scheme for parallel data lines - simultaneously transmits Manchester codes with N scrambled input data streams descrambled at receiver

PATENT-ASSIGNEE:

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TP 79010 A

July 25, 1990

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APPLICATION-DATA:

PUB-NO

APPL-DATE

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DESCRIPTOR

TP 79010A

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INT-CL (IPC): H04L 0/01

ABSTRACTED-PUB-NO: TP 79010A

BASIC-ABSTRACT:

Communication systems which utilise parallel data transmission lines are distance-limited because the skew between the lines becomes excessive and the receiver cannot reliably use be one clock to latch the data on all the lines.

A compensation scheme is proposed which utilises a scrambling circuit (a pseudo-number generator) to scramble the N input data streams before transmission. A clock and control signal, Manchester encodes, is simultaneously transmitted with the N scrambled data streams. The receiver utilises a descrambler including an identical pseudo-number generator. A Manchester code violation signals the receiver to turn on the descrambler. Clock recovery techniques are used to align the descrambled data. @(-pp

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: SKEW COMPENSATE SCHEME PARALLEL DATA LINE SIMULTANEOUS TRANSMIT MANCHESTER CODE N SCRAMBLE INPUT DATA STREAM RECEIVE

DERWENT-CLASS: W01

EPI-CODES: W01-A02;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1990-190440

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